2004 /

. (UNEP 2000) .(1994

.(1992)

.(Pearce, Turner 1990)

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Mohan	Munasinghe	"Economist's	Approach	to	sustainable
Develop	ment",				
Finance	and Developme	ent, Vol. 30, No.4	, December, 1	993:	19.
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Jeremy Warford, Wilfrido Cruz and Mohan Munasinghe, <u>Finance and Development</u>, Vol. 30, No.3, September, 1993: 40-43.

Theory of Externalities

(1) e(x) ((1) .(2) Χ) (2) Χ .e(x) Χ .P X $\pi_1 = \underset{x}{Max} [Px - C(x)]$ $\pi_2 = -e(x)$.i Χ) x = c(x)) x = e(x) c(x) x^{q} (1) Χ P = C'(x) X_q (x_q) (x_q) .XΧ (1) .X(Internalize (2) .the externality) x X $\pi_1 = \underset{x}{Max} [PX - C(x) - e(x)]$

```
(x_e)
P = C''(x) + e''(x) \quad : x_c
Χ
                                                             Χ
                                                            .Χ
                                             )
                                                                                         x_e < x_q
                                                                                                          . 2
                                                                                                         . x_e
                                      \pi_1 = \underset{x}{Max} [PX - C(x) - t(x)]
                                                                                                    X
                                            P = C''(x) + t''(x)
                                                       t''(x) = e''(x)
                     X
      . x_e
      e(x)
                                                     (2)
                                                                                                  (1)
           (
                                                                              (2)
```

```
(x_2) (x_1)
    r (2)
                                                                (2)
                                                                           (x_2)
                          (1) \pi_1 = \max_{x_1} [Px_1 + rx_1 - c(x_1)]
                                       \pi_1 = \underset{x_2}{Max} [rx_2 - e(x_2)]
                             (2)
                                                        ) x_2 = x_1

P + r = C''(x_1) : x_1

-r = e''(x_2) : x_2
                                          : (
          x_2 = x_1
r
                                             (x_2) ) x_1
                              P = C''(x_1) + e''(x_1) : x_1
                              x_e
                                                                                       . x_e
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(Property tax)

(severance tax)

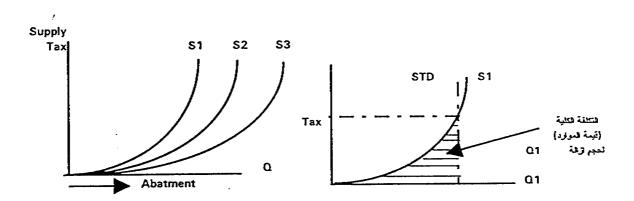
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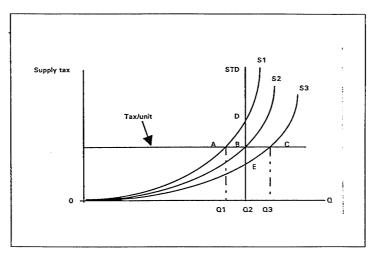


Source: Mishean (1976)

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= $Q_2 = STD$ $3Q_2 = Q_1 + Q_2 + Q_3$ ()



Source: Mishan (1976)

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$$ODQ_2 + OBQ_2 + OEQ_2 = STD$$

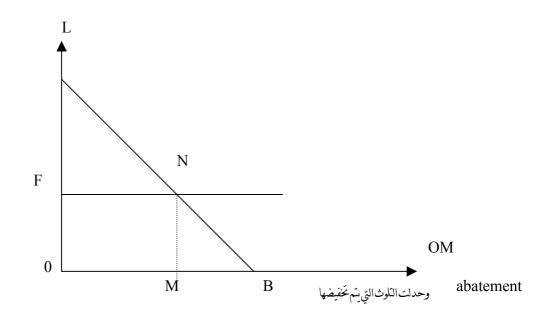
 $OAQ_1 + OBQ_2 + OCQ_3 =$

$$DQ_2Q_1A \succ CQ_3Q_2E \qquad 0 \prec DQ_2Q_1A + 0 - CQ_3Q_2E \qquad =$$

STD

STD

. .(1991)



.(Mishan 1976)

 $PVB = \sum_{t=1}^{n} \frac{B_t}{(1+r)^t}$ $= \frac{B_1}{(1+r)^t} + \frac{B_2}{(1+r)^2} + \dots + \frac{B_n}{(1+r)^n}$ $PVC = EC + \sum_{t=1}^{n} \frac{C_t}{(1+r)^t}$ $= EC + \frac{C_1}{(1+r)^t} + \frac{C_2}{(1+r)^2} + \dots + \frac{C_n}{(1+r)^n}$ $\frac{PVB}{PVC}$ PVB PVC EC

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